



July 19, 2005

Project No. 617

Mr. Gary Holtz
Sonoma County Department of Health Services
475 Aviation Boulevard, Suite 220
Santa Rosa, California 95403

Summary Letter
18155 Sonoma Highway
Boyes Hot Springs, California

Dear Mr. Holtz:

As discussed during a telephone conversation on July 11, 2005 Brunsing Associates, Inc. (BAI) has prepared this summary letter for the site located at 18155 Sonoma Highway, Boyes Hot Springs, California (Plates 1 and 2). A brief description of the site history and an evaluation of the groundwater analytical data are provided below.

SITE HISTORY

Standard Oil built and occupied a gasoline service station with underground fuel tanks in the center of the property in the mid-1940's. The site was used as a service station for an auto dealership/repair shop until its closure in 1965, according to a Van Houten Consultants, Inc. (Van Houten) report titled, "Discharge Evaluation for Removal of Buried Fuel Tanks," dated December 22, 1986. In the December 1986 report by Van Houten, the Site Plan indicates that the site initially contained six underground storage tanks: four fuel tanks (three 2,000-gallon tanks and one 5,500-gallon tank), a 500-gallon waste oil tank, and a concrete septic tank. The service station pump island was located on the west side of the site, adjacent to Sonoma Highway. According to Ms. Millie Gallo, a pump station was also present on the easterly side of the site, primarily for family use. In December 1986, Van Houten reported that the fuel tanks had not been in use for 20 years, and that the waste oil tank had not been used for six years.

The fuel tanks were emptied of liquid on May 21, 1986 by Fuel Oil Polishing Company-Bay Area of Sonoma, California, as stated in Van Houten's report titled "Quarterly Ground Water Sampling and Downgradient Hydrogeologic Investigation," dated April 30, 1993. Two soil borings were drilled on June 5, 1986 to the northeast and southwest of the fuel tanks; the soil samples were analyzed by Anatec Laboratories. The analytical results indicated that the soil samples from boring 1 contained none of the analytes. The soil samples collected from boring 2 contained total petroleum hydrocarbons (TPH) as gasoline concentrations at 530 parts per million (ppm) at 7 feet below ground surface (bgs) and 14 ppm at 12 feet bgs.

The tanks were removed from two excavations on October 27, 1986 by Hammond Construction of Sonoma, California. The tanks were hauled away from the site by H&H Ship Service of San Francisco, California. Samples collected from the volcanic bedrock below the gasoline tanks ranged in concentrations from 18 to 390 ppm of TPH as gasoline. Volcanic bedrock samples collected from below the waste oil tank were reported to contain 22 to 760 ppm of "total heavy hydrocarbons".

Composite samples from the excavated materials contained concentrations ranging from 440 to 890 ppm of TPH as gasoline. The excavated materials were stockpiled on site and were fenced and aerated for approximately 4 months. According to Van Houten's April 30, 1993 report, the material was returned to the excavation, upon approval by Mark Sullivan of the SCDHS-EHD, and additional clean fill was imported to bring the excavation up to grade on April 25, 1987.

Van Houten prepared an "Initial Hydrogeologic Investigation" report, dated April 15, 1991. The report provides a well survey for the area, a discussion of the drilling of borings 1 and 2, and the installation of groundwater monitoring wells MW-1 through MW-4.

Soil samples collected during the drilling of the borings and well boreholes were analyzed for TPH as gasoline, TPH as diesel, TPH as motor oil, non polar oil and grease, benzene, toluene, ethylbenzene, and xylenes (BTEX), chlorinated hydrocarbons, organic lead, and for five metals (nickel, cadmium, chromium, lead and zinc). The results of the soil analyses indicated that petroleum hydrocarbon contamination in soils existed at monitoring well MW-1 at six and 11 feet bgs, and in boring 1 at five feet bgs. No chlorinated hydrocarbons or metals greater than the total threshold limit concentrations were reported.

Quarterly groundwater monitoring and monthly groundwater elevation measurements were initiated at the site in March 1992; an initial groundwater monitoring round was also performed in March 1991 after the well installations. The results of the groundwater monitoring are provided in Van Houten's report titled, "Quarterly Groundwater Sampling and Downgradient Hydrogeologic Investigation." The groundwater analytical results reported between March 1991 and March 1993 indicate that the highest levels of petroleum hydrocarbons were occurring in monitoring well MW-1, with 400 parts per billion (ppb) of TPH as gasoline as the highest concentration.

In April 1993, approximately 700 cubic yards of contaminated soil were removed from the site. The area of the excavation was along the west side of the property, in the vicinity of monitoring well MW-1, which was abandoned. The depth of the soil excavation ranged from 20 feet at the northeast corner to 9.5 feet along the west wall to 5 feet at the south end of the excavation. Details of the soil excavation are provided in Van Houten's report titled, "Soil Excavation," dated June 14, 1993.

One groundwater monitoring event was completed in September 1993, after removal of the excavated soil. The next groundwater monitoring event occurred in January 1999, with monitoring continuing to the present. In December 2001, BAI drilled four soil borings (BB-1



through BB-4). The results of the drilling activities are discussed in BAI's report titled, "Soil and Groundwater Investigation," dated July 17, 2002.

Exploratory borings BB-8 and BB-9, and boring BB-7 were drilled on October 14, 2004 and October 15, 2004. The results of the drilling are presented in BAI's "Further Site Investigation Report", dated December 27, 2004.

Summaries of the groundwater elevation and analytical results since BAI has been monitoring the site are included in Tables 1 and 2, respectively. The well construction details are summarized in Table 3. The groundwater analytical data collected by Van Houten is included in Appendix A.

GROUNDWATER ANALYTICAL DATA

Since 1999, the groundwater flow direction has ranged from northwest to southwest (Table 1). The only analyte that has consistently been reported in the groundwater samples is 1,2-dichloroethane (1,2-DCA). The groundwater samples collected from well MW-2 have contained 1,2-DCA at concentrations ranging from 6.8 micrograms per liter ($\mu\text{g/l}$) in June 1992 to 1.59 $\mu\text{g/l}$ in March 2003. (Table 2 and Appendix A). However, since May 1999, the 1,2-DCA concentrations in well MW-2 have been relatively stable, ranging from 1.59 to 2.76 $\mu\text{g/l}$. Well MW-2 is located west to northwest of the former USTs and the former pump island (Plate 2). The groundwater samples collected from well MW-1 from 1991 to 1993 contained 1,2-DCA and petroleum hydrocarbons. Well MW-1 was located near the former tanks and was abandoned during the 1993 excavation.

BAI prepared two graphs of reported 1,2-DCA concentrations versus time for monitoring well MW-2. The first graph includes data starting in March 1991, and the second graph is for the data starting in January 1999. The 1,2-DCA verses time graphs and the data used to create the graphs are included in Appendix B. The data was plotted on a logarithmic scale and a linear regression line was added to the graph. A line representing an assumed clean-up goal for 1,2-DCA of 0.5 $\mu\text{g/l}$ was added and the regression line extended to the intersection point of the clean-up goal line. The interpretation of the data starting in 1991 indicates monitoring well MW-2 will reach the assumed clean-up goal for 1,2-DCA by approximately June 2023. The interpretation of the data starting in 1999 indicates monitoring well MW-2 will reach the assumed clean-up goal for 1,2-DCA by approximately January 2014.

DISPOSAL DOCUMENTS

In June 2003, three drums of water and 11 drums of soil generated during drilling and groundwater sampling were disposed of by Integrated Wastestream Management, Inc. In February 2005, two drums of water and two drums of soil generated during drilling and groundwater sampling were disposed of by Integrated Wastestream Management, Inc. The Integrated Wastestream Management, Inc. certificates of disposal are included in Appendix C.



RECOMMENDATIONS

The concentrations of 1,2-DCA reported in the MW-2 groundwater samples are above the Regional Water Quality Control Board's Environmental Screening Level for 1,2-DCA, which is 0.5 µg/l. However, the concentrations appear to be relatively stable since January 2002.

At this time, there is no known domestic, irrigation, or commercial well immediately downgradient of the site. At one time, a commercial well was believed to be located at the Sonoma Mission Inn & Spa. However, the letter from the Sonoma Mission Inn & Spa, dated April 21, 2004 states that the only active well located on their property is a geothermal well (Appendix D).

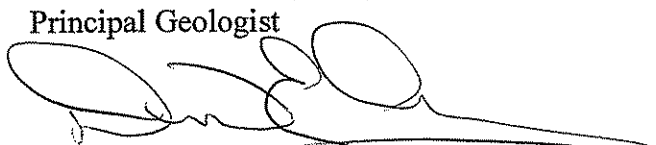
Because the 1,2-DCA concentrations in the groundwater samples collected from well MW-2 appear to be stable, and there is no known domestic, irrigation, or commercial well located immediately downgradient of the site, BAI recommends that the site be reviewed for no further action status.

If you have any questions, please contact us at (707) 838-3027.

Sincerely,


Diana M. Dickerson, P.G., R.E.A.
Principal Geologist




David E. Conley, P.G.
Senior Geologist

cc: Ms. Millie Gallo
Ms. Teri Gallo



List of Attachments

Table 1. Groundwater Elevation Data
Table 2. Groundwater Analytical Data For Wells
Table 3. Well Construction Details

Plate 1. Site Vicinity Map
Plate 2. Site Map

Appendix A. Van Houten Groundwater Analytical Data
Appendix B. 1,2-DCA Concentrations versus Time Graphs
Appendix C. Disposal Documents
Appendix D. Sonoma Mission Inn & Spa Letter



TABLES



TABLE 1. GROUNDWATER ELEVATION DATA

18155 Sonoma Highway
 Boyes Hot Springs, California

| Well Number | Date Measured | Top of Casing Elevation (Feet) | Depth to Groundwater (Feet below TOC) | Groundwater Elevation (Feet, MSL) | Groundwater Flow Direction and Gradient (ft/ft) |
|---------------------|---------------|--------------------------------|---------------------------------------|-----------------------------------|---|
| MW-2 | 8-Jan-99 | 134.03 | 13.42 | 120.61 | Northwest 0.028 |
| MW-3 | 8-Jan-99 | 141.09 | 19.19 | 121.90 | |
| MW-4 | 8-Jan-99 | 133.55 | 11.94 | 121.61 | |
| MW-2 | 11-May-99 | 134.03 | 10.79 | 123.24 | Northwest 0.019 |
| MW-3 | 11-May-99 | 141.09 | 16.64 | 124.45 | |
| MW-4 | 11-May-99 | 133.55 | 9.75 | 123.80 | |
| MW-2 | 16-Jan-02 | 134.03 | 7.91 | 126.12 | Southwest 0.055 |
| MW-3 | 16-Jan-02 | 141.09 | 12.82 | 128.27 | |
| MW-4 | 16-Jan-02 | 133.55 | 8.90 | 124.65 | |
| MW-2 | 18-Sep-02 | 134.03 | 25.64 | 108.39 | -- |
| MW-3 | 18-Sep-02 | 141.09 | dry | -- | |
| MW-4 | 18-Sep-02 | 133.55 | 22.40 | 111.15 | |
| MW-2 | 12-Dec-02 | 134.03 | 23.05 | 110.98 | -- |
| MW-3 | 12-Dec-02 | 141.09 | dry | -- | |
| MW-4 | 12-Dec-02 | 133.55 | 15.46 | 118.09 | |
| MW-2 | 13-Mar-03 | 134.03 | 10.42 | 123.61 | Southwest 0.041 |
| MW-3 | 13-Mar-03 | 141.09 | 15.13 | 125.96 | |
| MW-4 | 13-Mar-03 | 133.55 | 10.91 | 122.64 | |
| MW-2 | 13-Jun-03 | 134.03 | 13.53 | 120.50 | Northwest 0.024 |
| MW-3 | 13-Jun-03 | 141.09 | 20.13 | 120.96 | |
| MW-4 | 13-Jun-03 | 133.55 | 12.14 | 121.41 | |
| MW-2 | 30-Sep-03 | 134.03 | 24.74 | 109.29 | -- |
| MW-3 | 30-Sep-03 | 141.09 | dry | -- | |
| MW-4 | 30-Sep-03 | 133.55 | 21.78 | 111.77 | |
| MW-2 | 5-Mar-04 | 134.03 | 7.06 | 126.97 | -- |
| MW-3 | 5-Mar-04 | 141.09 | 12.90 | 128.19 | |
| MW-4 ⁽¹⁾ | 5-Mar-04 | 133.55 | 8.56 | 124.99 | |
| MW-2 | Aug-23-04 | 134.03 | 25.26 | 108.77 | Northwest 0.129 |
| MW-3 ⁽²⁾ | Aug-23-04 | 141.09 | 22.01 | 119.08 | |
| MW-4 | Aug-23-04 | 133.55 | 22.32 | 111.23 | |



TABLE 1. GROUNDWATER ELEVATION DATA

18155 Sonoma Highway
Boyes Hot Springs, California

| Well Number | Date Measured | Top of Casing Elevation (Feet) | Depth to Groundwater (Feet below TOC) | Groundwater Elevation (Feet, MSL) | Groundwater Flow Direction and Gradient (ft/ft) |
|---------------------|---------------|--------------------------------|---------------------------------------|-----------------------------------|---|
| MW-2 | 9-Mar-05 | 134.03 | 6.79 | 127.24 | -- |
| MW-3 | 9-Mar-05 | 141.09 | nm | | |
| MW-4 ⁽¹⁾ | 9-Mar-05 | 133.55 | 8.83 | 124.72 | |

Cumulative data since BAI has been monitoring the site.

TOC = Top of casing surveyed to mean sea level by FitzGerald & Associates, 3/13/91 and 4/12/93.

ft/ft = Foot per foot.

MSL = Mean sea level.

nm = Not measured, well inaccessible.

⁽¹⁾ Water in well may not have stabilized, therefore no groundwater flow direction or gradient was calculated.

⁽²⁾ Water in well may not have stabilized.



TABLE 2. GROUNDWATER ANALYTICAL DATA FOR WELLS

18155 Sonoma Highway
 Boyes Hot Springs, California

| Well Number | Date Sampled | TPH as gasoline (mg/l) | TPH as diesel (mg/l) | BTEX ⁽¹⁾ (µg/l) | MTBE ⁽²⁾ EPA 8260 (µg/l) | 1,2-DCA ⁽³⁾ EPA 8260 (µg/l) | Dissolved Zinc ⁽⁴⁾ (µg/l) |
|-------------|--------------|------------------------|----------------------|----------------------------|-------------------------------------|--|--------------------------------------|
| MW-2 | 8-Jan-99 | <0.05 | <0.05 | <0.5 | <1.0 | 3.45 | 29.3 |
| MW-2 | 11-May-99 | <0.05 | <0.05 | <0.5 | <0.50 | 3.93 | 56.3 |
| MW-2 | 16-Jan-02 | <0.05 | nr | <0.50 | <1.0 | 2.10 | nr |
| MW-2 | 18-Sep-02 | <0.05 | nr | <0.50 | <1.0 | 1.74 | nr |
| MW-2 | 12-Dec-02 | <0.05 | nr | <0.50 | <1.0 | 1.81 | nr |
| MW-2 | 13-Mar-03 | <0.05 | nr | <0.50 | <1.0 | 1.59 | nr |
| MW-2 | 13-Jun-03 | <0.05 | nr | <0.50 | <1.0 | 1.64 | nr |
| MW-2 | 30-Sep-03 | <0.05 | nr | <0.50 | <1.0 | 2.76 | nr |
| MW-2 | 5-Mar-04 | nr | nr | nr | nr | 1.72 | nr |
| MW-2 | 23-Aug-04 | nr | nr | nr | nr | 1.76 | nr |
| MW-2 | 9-Mar-05 | nr | nr | nr | nr | 1.7 | nr |
| MW-3 | 8-Jan-99 | <0.05 | <0.05 | <0.5 | <1.0 | <0.50 | 24.7 |
| MW-3 | 11-May-99 | <0.05 | <0.05 | <0.5 | <0.50 | <0.50 | 67.7 |
| MW-3 | 16-Jan-02 | <0.05 | nr | <0.50 | <1.0 | <0.50 | nr |
| MW-3 | 13-Mar-03 | <0.05 | nr | <0.50 | <1.0 | <0.50 | nr |
| MW-3 | 13-Jun-03 | <0.05 | nr | <0.50 | <1.0 | <0.50 | nr |
| MW-4 | 8-Jan-99 | <0.05 | <0.05 | <0.5 | 2.27 | <0.50 | 47.6 |
| MW-4 | 11-May-99 | <0.05 | <0.05 | <0.5 | <0.50 | <0.50 | 38.0 |
| MW-4 | 16-Jan-02 | <0.05 | nr | <0.50 | <1.0 | <0.50 | nr |
| MW-4 | 18-Sep-02 | <0.05 | nr | <0.50 | <1.0 | <0.50 | nr |
| MW-4 | 12-Dec-02 | <0.05 | nr | <0.50 | <1.0 | <0.50 | nr |
| MW-4 | 13-Mar-03 | <0.05 | nr | <0.50 | <1.0 | <0.50 | nr |
| MW-4 | 13-Jun-03 | <0.05 | nr | <0.50 | <1.0 | <0.50 | nr |
| MW-4 | 30-Sep-03 | <0.05 | nr | <0.50 | <1.0 | <0.50 | nr |
| MW-4 | 5-Mar-04 | nr | nr | nr | nr | <0.50 | nr |
| MW-4 | 9-Mar-05 | nr | nr | nr | nr | <0.50 | nr |

Cumulative data since BAI has been monitoring the site.

mg/l = Milligrams per liter.

µg/l = Micrograms per liter.

< = Not detected at specified laboratory reporting limit.

nr = Not requested.

⁽¹⁾ = Benzene, toluene, ethylbenzene, and xylenes.

⁽²⁾ = Methyl tertiary butyl ether.

⁽³⁾ = 1,2-dichloroethane. Other petroleum oxygenates and lead scavengers, through September 2003, analyzed using EPA Test Method 8260. Only those listed were detected.

⁽⁴⁾ = Dissolved cadmium, chromium, lead, and nickel were not detected when analyzed.



TABLE 3. WELL CONSTRUCTION DETAILS

18155 Sonoma Highway

Boyce Hot Springs, California

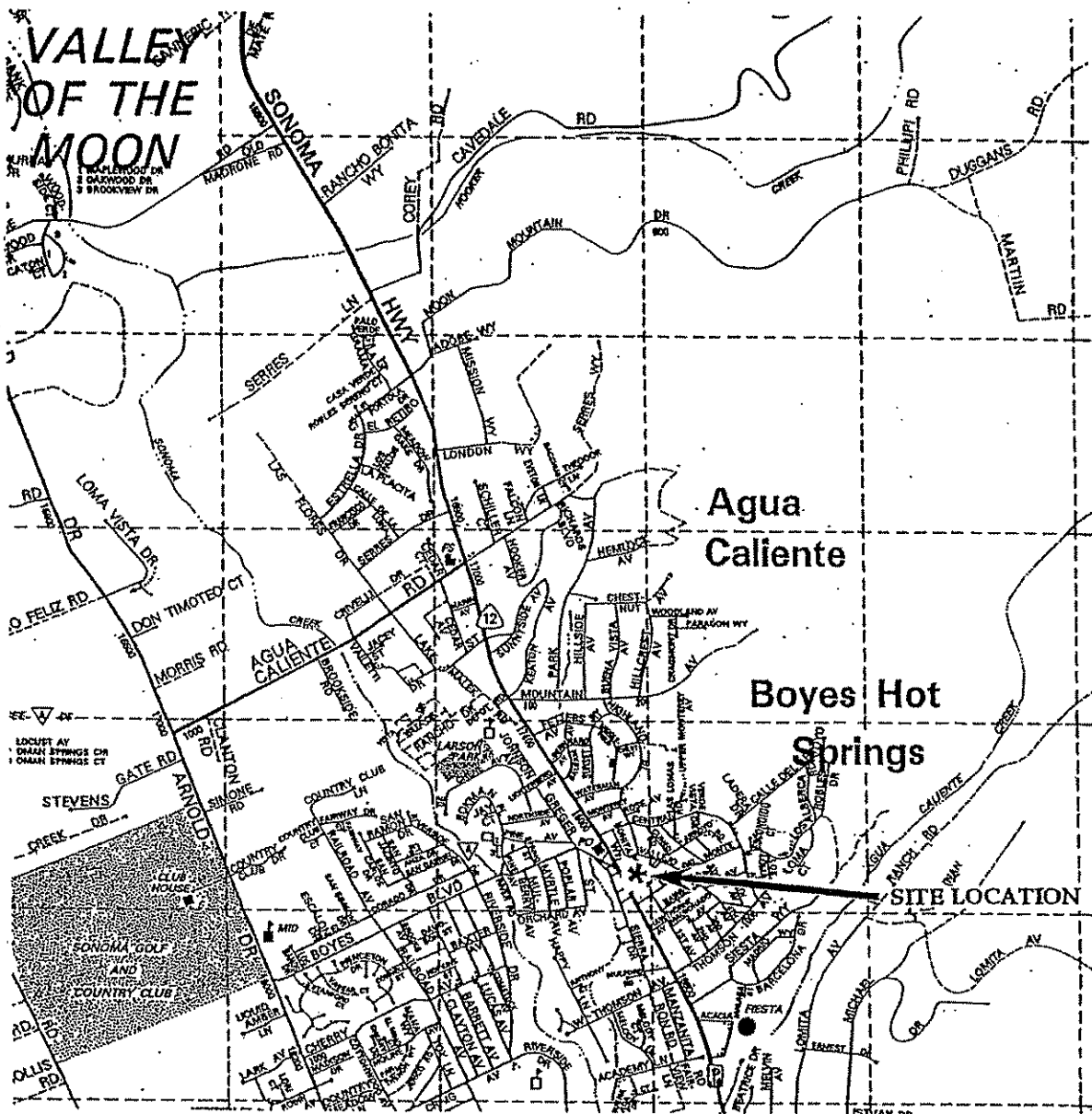
| Well Number | Date Installed | Installed By | Borehole Diameter (inches) | Total Borehole Depth (feet) | Screened Interval (feet) | Total Well Depth (feet) | Casing Diameter (inches) | Screen Slot Size (inches) | PVC Casing Elevation (MSL) | Well Condition |
|-------------|----------------|--------------|----------------------------|-----------------------------|--------------------------|-------------------------|--------------------------|---------------------------|----------------------------|----------------|
| MW-1 | 28-Feb-91 | Van Houten | 8 | 33.5 | 18.5 to 33.5 | 33.5 | 2 | 0.020 | -- | abandoned |
| MW-2 | 28-Feb-91 | Van Houten | 8 | 42 | 20 to 40 | 40 | 2 | 0.020 | 134.03 | existing |
| MW-3 | 1-Mar-91 | Van Houten | 8 | 22.5 | 12.5 to 22.5 | 22.5 | 2 | 0.020 | 141.09 | existing |
| MW-4 | 19-Oct-92 | Van Houten | 8 | 23 | 5 to 23 | 23 | 2 | 0.020 | 133.55 | existing |

MSL = Mean sea level

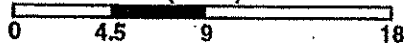


PLATES





APPROXIMATE SCALE
(miles)



Copy right 1995 by
California State Automobile
Association



Brunsing Associates, Inc.
5803 Skylane Blvd., Suite A
Windsor, California 95492
Tel: (707) 838-3027

Job No.: 617.003

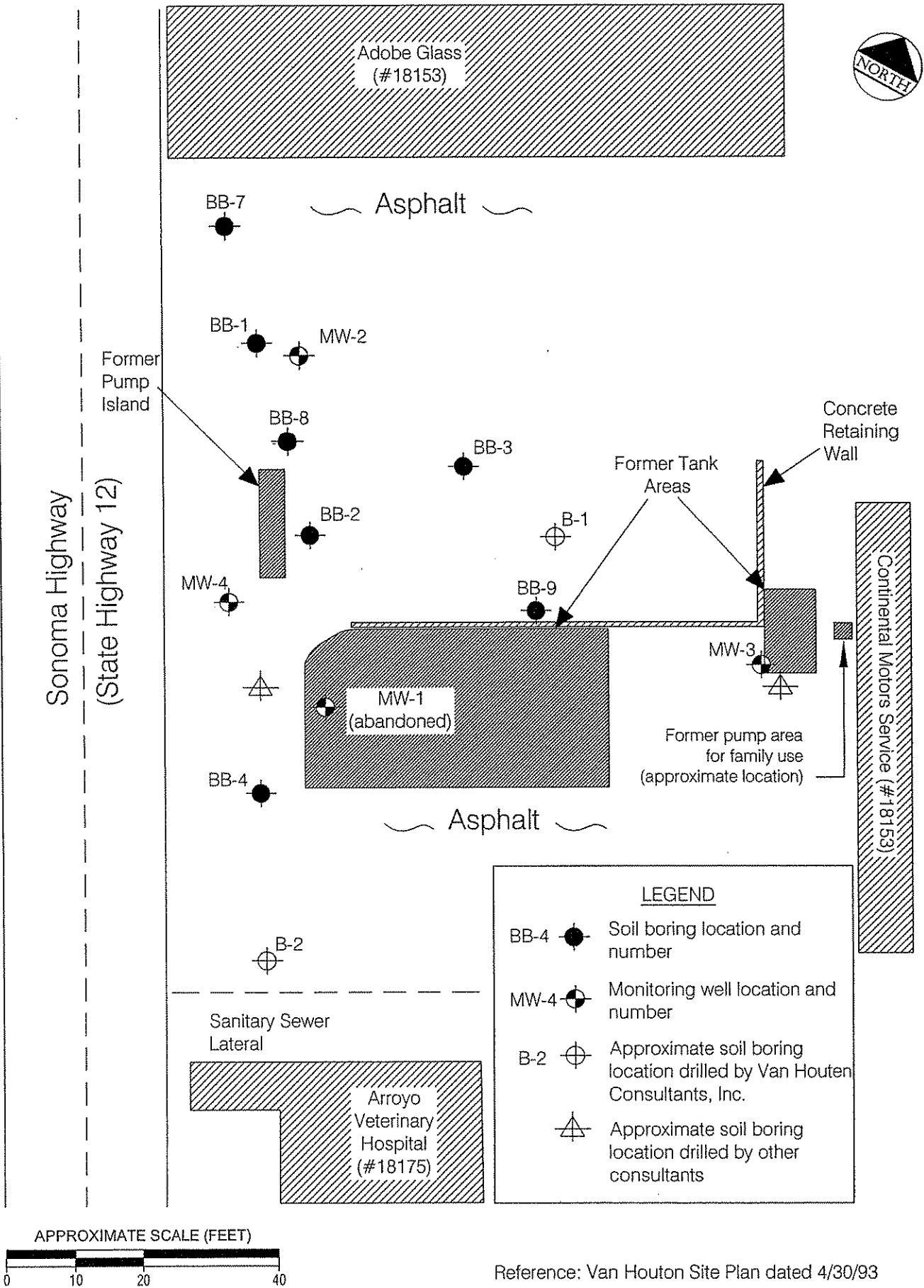
Appr.: *[Signature]*

Date: 05/13/03

SITE VICINITY MAP
18155 Sonoma Highway
Boyes Hot Springs, California

PLATE

1



Brunsing Associates, Inc.
 5803 Skylane Blvd., Suite A
 Windsor, California 95492
 Tel: (707) 838-3027

Job No.: 617

Appr.: *OMA*
 Date: 12/15/04

SITE MAP
 18155 Sonoma Highway
 Boyes Hot Springs, California

PLATE
2

APPENDIX A

Van Houten Groundwater Analytical Data



Enrico & Guido Gallo (Job No. 92-174.03)
 Page 4 of 7 - July 26, 1993

Table 4. Summary of Water Sample Analytical Results

| | 3/08 | 3/18 | 6/16 | 9/23 | | |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>MW-1</u> | <u>1991</u> | <u>1992</u> | <u>1992</u> | <u>1992</u> | | |
| TPH (gasoline) | 80 | 200 | 290 | 400 | | |
| TPH (diesel) | ND | 150 | 350 | 330** | | |
| TPH (motor oil) | ND | ND | ND | ND | | |
| Oil & Grease-total | -- | ND | -- | -- | | |
| Oil & Grease-Nonpolar | -- | ND | -- | -- | | |
| Benzene | 3.4 | 6.3 | 21 | 16 | | |
| Toluene | ND | ND | 1.7 | ND | | |
| Xylenes | 1.2 | 4.7 | 7.4 | 4.3 | | |
| Ethylbenzene | 1.2 | 2.7 | 6.0 | 4.9 | | |
| Organic Lead | ND | ND | ND | -- | | |
| Purgeable Halocarbons | ND | ND* | ND* | ND* | | |
| 1,2 Dichloroethane | ND | 1.0 | 3.4 | 3.3 | | |
| Nickel | 940 | ND | ND | -- | | |
| Cadmium | ND | ND | ND | -- | | |
| Chromium (VI) | ND | 20 | ND | -- | | |
| Lead | 9 | 27 | 19 | 19 | | |
| Zinc | 20 | 50 | 20 | -- | | |
| Nitrates | -- | -- | 370 | -- | | |
| | 3/08 | 3/18 | 6/16 | 9/23 | 3/19 | 6/30 |
| <u>MW-2</u> | <u>1991</u> | <u>1992</u> | <u>1992</u> | <u>1992</u> | <u>1993</u> | <u>1993</u> |
| TPH (gasoline) | ND | ND | ND | ND | ND | ND |
| TPH (diesel) | ND | ND | ND | ND | ND | 120 |
| TPH (motor oil) | ND | ND | ND | ND | ND | ND |
| Oil & Grease-total | -- | ND | -- | -- | -- | -- |
| Oil & Grease-Non Polar | -- | ND | -- | -- | -- | -- |
| Benzene | ND | ND | 0.6 | ND | ND | ND |
| Toluene | ND | ND | 1.6 | ND | ND | ND |
| Xylenes | ND | ND | 1.8 | ND | ND | ND |
| Ethylbenzene | ND | ND | ND | ND | ND | ND |
| Organic Lead | ND | ND | ND | -- | -- | -- |
| Purgeable Halocarbons | ND* | ND* | ND* | ND* | ND* | ND* |
| 1,2 Dichloroethane | 2.9 | 2.9 | 6.8 | 6.0 | 4.1 | 3.1 |
| Nickel | 110 | ND | ND | -- | -- | -- |
| Cadmium | ND | ND | ND | -- | -- | -- |
| Chromium (VI) | ND | 20 | ND | -- | -- | -- |
| Lead | 5 | 15 | 4 | 5 | 3 | ND |
| Zinc | ND | 30 | ND | -- | -- | -- |
| Nitrates | -- | -- | 70 | -- | -- | -- |

Enrico & Guido Gallo (Job No. 92-174.03)
Page 5 of 7 - July 26, 1993

Table 4. Summary of Water Sample Analytical Results
(continued)

| <u>MW-3</u> | <u>3/08</u> <u>1991</u> | <u>3/18</u> <u>1992</u> | <u>6/16</u> <u>1992</u> | <u>9/23</u> <u>1992</u> | <u>3/19</u> <u>1993</u> |
|------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| TPH (gasoline) | ND | ND | ND | ND | ND |
| TPH (diesel) | ND | ND | ND | ND | ND |
| TPH (motor oil) | ND | ND | ND | ND | ND |
| Oil & Grease-total | -- | ND | -- | -- | -- |
| Oil & Grease-Non Polar | -- | ND | -- | -- | -- |
| Benzene | ND | ND | 0.9 | ND | ND |
| Toluene | ND | ND | 0.7 | ND | ND |
| Xylenes | ND | ND | ND | ND | ND |
| Ethylbenzene | ND | ND | ND | ND | ND |
| Organic Lead | ND | ND | ND | -- | -- |
| Purgeable Halocarbons | ND | ND | ND | ND* | ND |
| Tetrachloroethene | -- | -- | -- | 10 | ND |
| Nickel | -- | ND | ND | -- | -- |
| Cadmium | ND | ND | ND | -- | -- |
| Chromium (VI) | ND | ND | ND | -- | -- |
| Lead | 5 | 6 | 13 | 15 | 13 |
| Zinc | 20 | 60 | 4 | -- | -- |
| <u>MW-4</u> | <u>11/2</u> <u>1992</u> | <u>3/19</u> <u>1993</u> | <u>6/30</u> <u>1993</u> | | |
| TPH (gasoline) | ND | ND | 60 | | |
| TPH (diesel) | ND | ND | 90 | | |
| TPH (motor oil) | ND | ND | ND | | |
| Benzene | ND | ND | 5.9 | | |
| Toluene | ND | ND | 1.7 | | |
| Xylenes | ND | ND | 2.9 | | |
| Ethylbenzene | ND | ND | 5.2 | | |
| Purgeable Halocarbons | ND | ND | ND | | |
| Lead | ND | ND | ND | | |
| Nitrates | 320 | -- | -- | | |

ND=None detected

All results are in parts per billion (ppb)

* Except as noted

** TPH as diesel values noted to be due to
the presence of lighter hydrocarbons

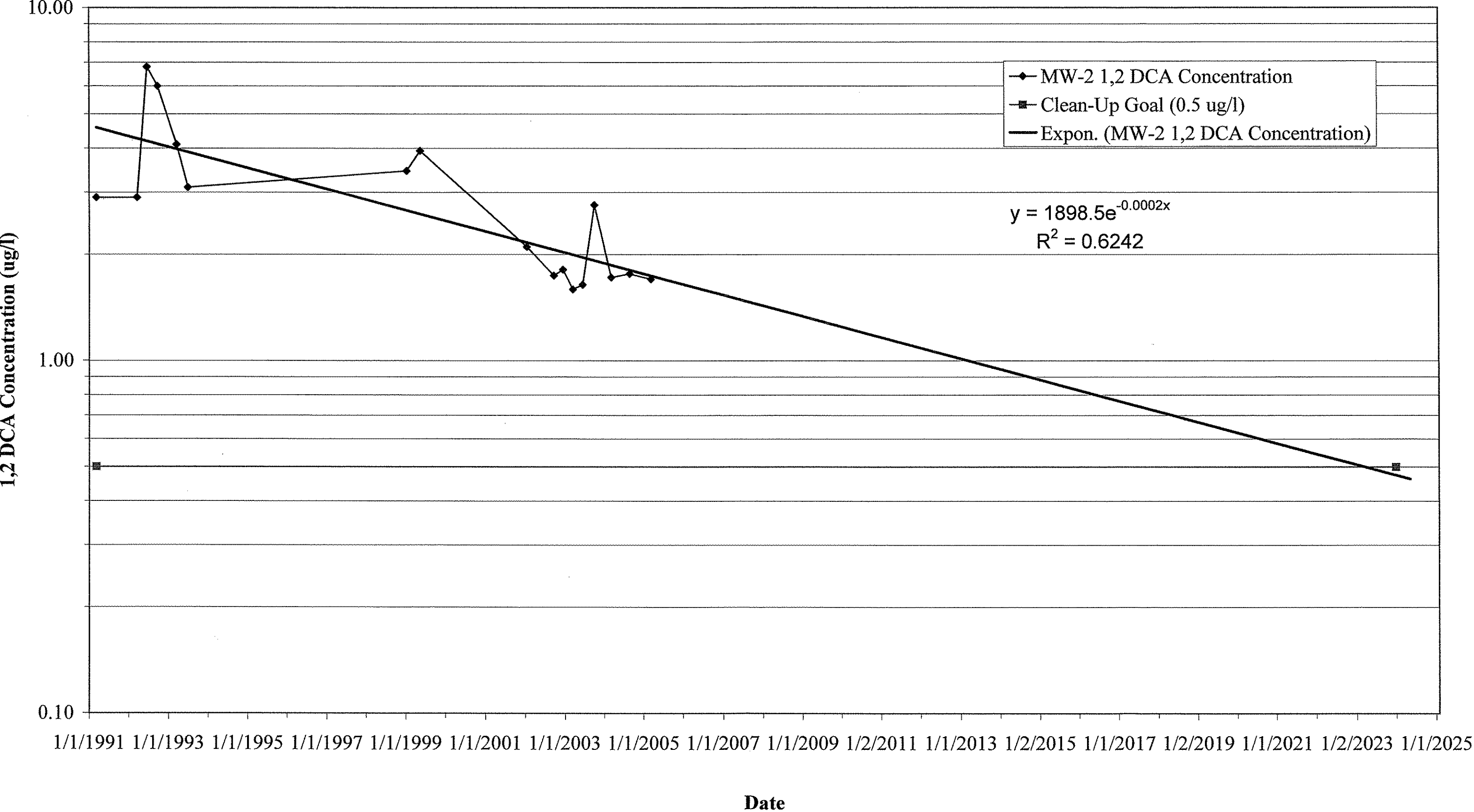
MW-1 was decommissioned by overdrilling and
filling with grout on 11/2/92; Soil around MW-1
was excavated in April, 1993.

APPENDIX B

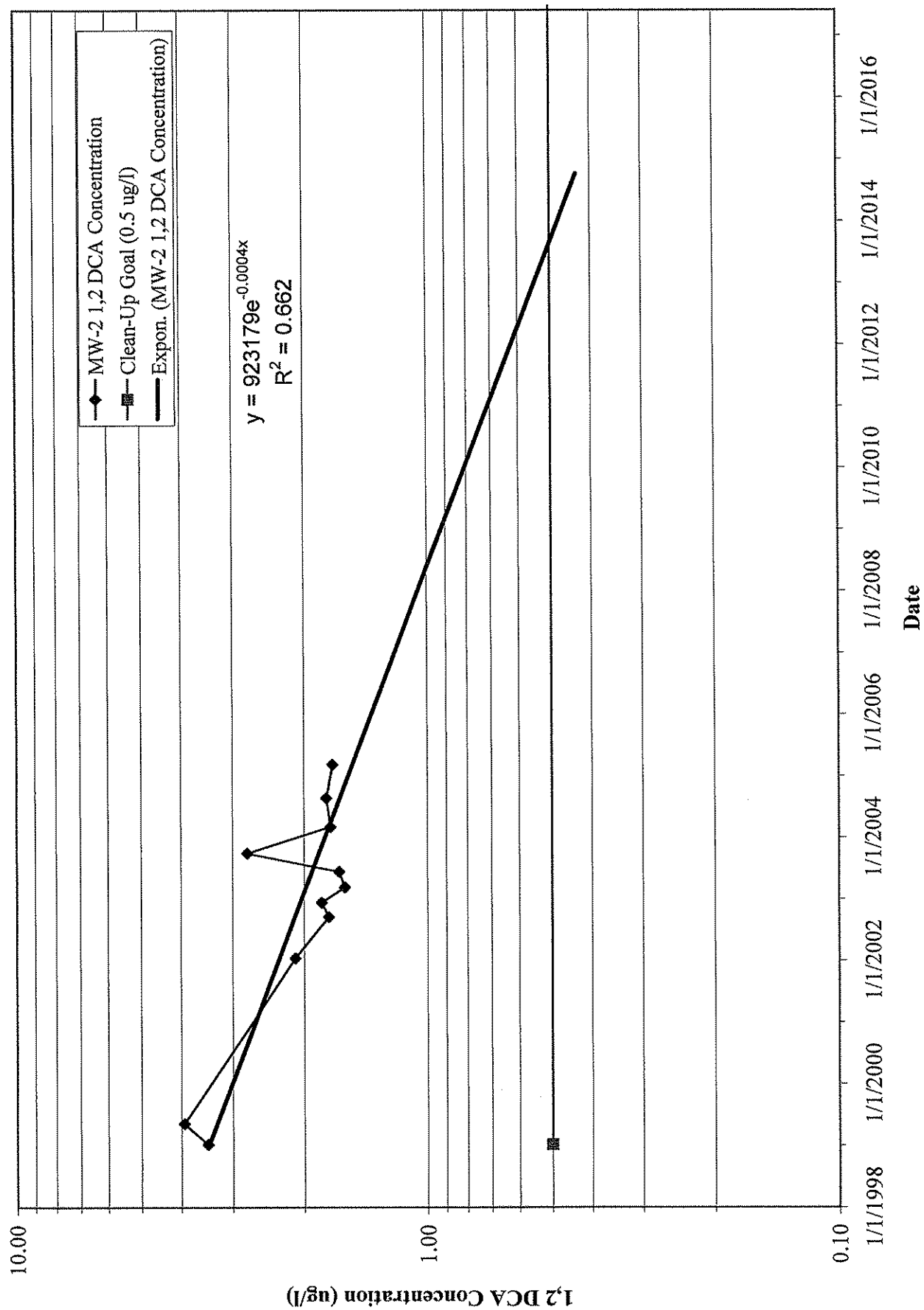
1,2-DCA Concentrations versus Time Graphs



MW-2 1,2 DCA Concentration vs. Time



MW-2 1,2 DCA Concentration vs. Time



| Well Number | Date Sampled | 1,2-DCA ^(A) EPA 8260 (µg/l) | 1,2-DCA Clean-Up Goal (µg/l) |
|--------------------|---------------------|---|---|
| MW-2 | 3/8/1991 | 2.9 | 0.50 |
| MW-2 | 3/18/1992 | 2.9 | 0.50 |
| MW-2 | 6/16/1992 | 6.8 | 0.50 |
| MW-2 | 9/23/1992 | 6.0 | 0.50 |
| MW-2 | 3/19/1993 | 4.1 | 0.50 |
| MW-2 | 6/30/1993 | 3.1 | 0.50 |
| MW-2 | 1/8/1999 | 3.45 | 0.50 |
| MW-2 | 5/11/1999 | 3.93 | 0.50 |
| MW-2 | 1/16/2002 | 2.10 | 0.50 |
| MW-2 | 9/18/2002 | 1.74 | 0.50 |
| MW-2 | 12/12/2002 | 1.81 | 0.50 |
| MW-2 | 3/13/2003 | 1.59 | 0.50 |
| MW-2 | 6/13/2003 | 1.64 | 0.50 |
| MW-2 | 9/30/2003 | 2.76 | 0.50 |
| MW-2 | 3/5/2004 | 1.72 | 0.50 |
| MW-2 | 8/23/2004 | 1.76 | 0.50 |
| MW-2 | 3/9/2005 | 1.7 | 0.50 |
| | 12/31/2023 | | 0.50 |

Samples collected prior to 1999 were collected by Van Houten Consultants, Inc.

^(A) = 1,2-dichloroethane. Other petroleum oxygenates and lead scavengers, through September 2003, analyzed using EPA Test Method 8260. Only those listed were detected.

APPENDIX C

Disposal Documents



617

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name: Mary Gallo
Address: 670 W. Napa, Suite B
Sonoma, CA 95476
Contact: Dal Poggetto
Phone: 707-996-3647

Facility Name: Continental Motors
Address: 18155 Sonoma Hwy.
Boyes Hot Springs, CA
Facility Contact: Diana Dickerson, Brunsing Associates, Inc.
Phone: 707-838-3027

| | |
|-----------------------|----------------------|
| IWM Job #: | <u>93122-DW</u> |
| Description of Waste: | <u>3 Drum(s) of</u> |
| | <u>Non-Hazardous</u> |
| | <u>Water</u> |
| Removal Date: | <u>30 June 2003</u> |
| Ticket #: | <u>SP300603-MISC</u> |

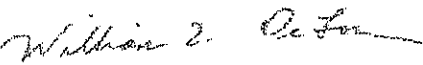
Transporter Information

Name: IWM, Inc.
Address: 950 Ames Avenue
Milpitas, CA 95035
Phone: (408) 942-8955

Disposal Facility Information

Name: Seaport Environmental
Address: 675 Seaport Blvd
Redwood City, CA 94063
Phone: 650-364-6158

**IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE
TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH
APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.**

William T. DeLon 
Authorized Representative (Print Name and Signature)

06/30/03
Date

617

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name: Mary Gallo
Address: 670 W. Napa, Suite B
Sonoma, CA 95476
Contact: Dal Poggetto
Phone: 707-996-3647

Facility Name: Continental Motors
Address: 18155 Sonoma Hwy.
Boyes Hot Springs, CA
Facility Contact: Diana Dickerson, Brunsing Associates, Inc.
Phone: 707-838-3027

| | |
|-----------------------|---|
| IWM Job #: | <u>93123-DS</u> |
| Description of Waste: | <u>11 Drum(s) of</u> <u>Non-Hazardous</u> <u>Soil</u> |
| Removal Date: | <u>30 June 2003</u> |
| Ticket #: | <u>RSVRL300603</u> |

Transporter Information

Name: IWM, Inc.
Address: 950 Ames Avenue
Milpitas, CA 95035
Phone: (408) 942-8955

Disposal Facility Information

Name: Republic Services Vasco Road Landfill
Address: 4001 N. Vasco Road
Livermore, CA 94550
Phone: (925) 447-0491

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon

Authorized Representative (Print Name and Signature)

06/30/03

Date

617

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name: Mary Gallo
Address: P.O. Box 517
Boyes Hot Springs, CA 95416
Contact: Mr. Newton Dal Poggetto, Esq.
Phone: 707-996-3647

Facility Name: Continental Motors
Address: 18155 Sonoma Highway
Boyes Hot Springs, CA
Facility Contact: Michelle Floyd-Frederick, Brunsing Associates
Phone: 707-838-3027

| | |
|-----------------------|--|
| IWM Job #: | <u>94807-DS</u> |
| Description of Waste: | <u>2 Drum(s) of</u> <u>Non-Hazardous</u> <u>Soil</u> |
| Removal Date: | <u>2/8/05</u> |
| Ticket #: | <u>RSVRL080205</u> |

Transporter Information

Name: IWM, Inc.
Address: 950 Ames Avenue
Milpitas, CA 95035
Phone: (408) 942-8955

Disposal Facility Information

Name: Republic Services Vasco Road Landfill
Address: 4001 N. Vasco Road
Livermore, CA 94550
Phone: (925) 447-0491

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon

Authorized Representative (Print Name and Signature)

2/8/05

Date

611

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name: Mary Gallo
Address: P.O. Box 517
Boyes Hot Springs, CA 95416
Contact: Mr. Newton Dal Poggetto, Esq.
Phone: 707-996-3647

Facility Name: Continental Motors
Address: 18155 Sonoma Highway
Boyes Hot Springs, CA
Facility Contact: Michelle Floyd-Frederick, Brunsing Associates
Phone: 707-838-3027

| | |
|-----------------------|----------------------|
| IWM Job #: | <u>94808-DW</u> |
| Description of Waste: | <u>2 Drum (s) of</u> |
| | <u>Non-Hazardous</u> |
| | <u>Water/Rinsate</u> |
| Removal Date: | <u>2/8/05</u> |
| Ticket #: | <u>SP080205-MISC</u> |

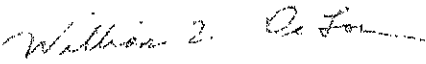
Transporter Information

Name: IWM, Inc.
Address: 950 Ames Avenue
Milpitas, CA 95035
Phone: (408) 942-8955

Disposal Facility Information

Name: Seaport Refining & Environmental
Address: 675 Seaport Blvd
Redwood City, CA 94063
Phone: 650-364-6158

**IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE
TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH
APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.**

William T. DeLon 
Authorized Representative (Print Name and Signature)

2/8/05
Date

APPENDIX D

Sonoma Mission Inn & Spa Letter



THE *Fairmont*
SONOMA MISSION INN & SPA

4/21/2004

To:
Ms. Peggy Carr
SCDHS-EHD

Dear Ms. Carr,
This letter is in reference to Project No. 617

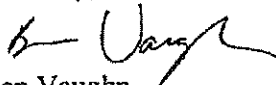
As requested here is a letter confirming the **absence** of a well used for commercial bottled water.

We currently do not have any other active wells beside the geo-thermal well as noted in your letter. We do have one abandoned well and no one on property seems to know where it is located, the electrical has been disconnected for some time.

I have been employed at the Sonoma Mission Inn since August of 1998 and am not aware of any plans to bottle our own water. I have questioned a few of our senior employees and found that there was only talk of bottling our own water around 1996-1997 and that nothing ever materialized.

Please feel free to contact me at any time for questions or concerns.

Sincerely,



Ben Vaughn
Facilities Manager
The Fairmont Sonoma Mission Inn & Spa
P.O. Box 1447 Sonoma, Ca. 95476
Tel.: (707) 939-4155
E-mail: Ben.Vaughn@Fairmont.com

